

# ATTACHMENT IV

## ONA CROSS REFERENCE GUIDE

BELL OPERATING COMPANIES

## **ONA Special Report #5 Update**

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SEPTEMBER 30, 1998

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## **1. Appendix A: Relationship Between ESP Requests for Network Capabilities and ONA Services**

The FCC, in its December 22, 1989 Memorandum, Opinion and Order, recognized the 118 requests for network capabilities included in BOC Special Report Number 1 as the nationally received requests. Not all of these requests are for particular services. For example, some are for attributes that a service should contain; some are for a service to operate in a particular manner. As a result, some ONA services offered meet a number of network capability requests, while some requests are met by a number of ONA services. There is not a one-for-one relationship between network capability requests and ONA services. In addition, some ONA services may be offered by some regional companies as both a BSE and a CNS, depending on the line that the service is applied to.

The following appendix shows the relationship between each of the requested network capabilities, other requested network capabilities and ONA services. The ONA services listed use the Uniform Names developed by the regional companies and contributed to the IILC Issue 006 ONA Services User Guide Task Group.

Following this Appendix A is a summary table (Appendix B) arranged to be similar to Appendix E of the FCC's December 22, 1988 Memorandum Opinion and Order.

### **1. Call Forwarding Busy Line/Don't Answer**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Call Forwarding - Busy Line Intraswitch
- Call Forwarding - Busy Line Interswitch
- Call Forwarding - Don't Answer Intraswitch
- Call Forwarding - Don't Answer Interswitch

### **2. Activation Of Call Forwarding Variable Without Call Completion**

This is a request for an attribute of service. It is being met by some regional companies by offering the following ONA service:

- Call Forwarding - Variable - Activation Without Courtesy Call

### **3. Call Forward Don't Answer Interoffice**

This request relates to request number 1. It is being met by offering the following ONA service:

- Call Forwarding - Don't Answer Interswitch

### **4. Multiple Calls Forwarded To DID Interoffice**

This is a request for a particular application of a service. It is being met by some regional companies by offering the following service:

- Call Forwarding - Multiple Simultaneous Calls Interswitch

### **5. Call Forwarding With Status Information To Answering Bureau**

This request is for a particular application of a service. It is being met by some regional companies by offering the following service:

- Message Desk (SMDI)
- Message Desk (SMDI) - Expanded

### **6. Activation of Call Forwarding Variable With Call Completion**

This request is for a service. It is being met by offering the following service:

- Call Forwarding - Variable

### **7. Call Forwarding With Call Screening.**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Selective Call Forwarding

### **8. Call Forwarding With Call Waiting**

This is a request for two services to interact in a particular manner. It is met by some regional companies by offering the following ONA service:

- Call Forwarding Don't Answer After Call Waiting (CFDA After CW)

### **9. Call Forwarding With Called and Calling Number**

This is a request for a particular application of a service. It is related to request number 5. It is being met by some regional companies by offering the following ONA services:

- Calling Directory Number Delivery - via BCLID
- Message Desk (SMDI)
- Message Desk (SMDI) - Expanded

### **10. Call Forward Don't Answer With Variable Ring Counts**

This is a request for a service to operate in a particular manner. It is related to request number 1. It is being met by offering the following ONA services:

- Call Forwarding - Don't Answer Interswitch
- Call Forwarding - Don't Answer Intraswitch
- Customer Changeable Number of Rings

### **11. Customer Control of CFBL/CFDA**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivation
- Call Forwarding - Busy Line or Don't Answer - Customer Control of Forward-To Number

### **12. Monitor & Barge In**

This is a request for a service that requires development.

### **13. SMDI**

This is a request for a particular interface. It is related to requests number 5 and 9. It is being met by some regional companies by offering the following ONA service:

- Message Desk (SMDI)
- Message Desk (SMDI) - Expanded

### **14. SMDI With Automatic Ringback**

This is a request for a service to operate in a particular manner. Based on the findings in IILC Issue #030 (Message Waiting Indication: Ringback After Busy Transfer), it is being met by some regional companies by offering the following combination of services:

- Distinctive Ringing - Terminating Screening (client needs to have a second telephone number)
- Call Forwarding - Variable (or Call Forwarding Busy Line/Don't Answer)

### **15. 3-Way Call Transfer**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Three Way Call Transfer

### **16. Speed Calling**

This is a request for a service. It is being met by offering the following ONA service:

- Speed Calling



### **17. Remote Activation of Custom Calling Services**

This is a general request for a number of services to operate in a particular manner. A specific application of this operation relates to request number 11. It is being met by some regional companies by offering the following ONA services:

- Call Forwarding - Variable - Remote Activation/Control

### **18. ESP Notification Of ESP's Client Or BOC Control Action**

This is a request for a service to operate in a particular manner. This operation requires development.

### **19. Call Distribution Functions Including Queue**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Multiline Hunt Group
- Multiline Hunt Group - C. O. Announcements
- Multiline Hunt Group - Uniform Call Distribution Line Hunting
- Multiline Hunt Group - UCD With Queuing
- DID Trunk Queuing

### **20. Derived Local Channels**

This is a request for service to be delivered using a particular technology. It is being met by some regional companies by offering the following ONA services:

- Data Over Voice (DOV) Service
- Verify Integrity of Subscriber Lines
- Derived Channels (Monitoring)
- Category 3, Type J - Dedicated Derived Channel BSA

### **21. Screening**

This is a general request for a network capability. Specific applications of this capability relate to request number 7. It is being met by some regional companies by offering the following ONA services:

- Selective Call Forwarding
- Selective Call Rejection

### **22. Calling Directory Number Delivery**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Calling Directory Number Delivery - via BCLID
- Calling Directory Number Delivery - via ICLID
- Message Desk (SMDI)
- Message Desk (SMDI) - Expanded

**23. Delivery of Dialed Number**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Called Directory Number Delivery via DID
- Called Directory Number Delivery via 900NXX

**24. Uniform Abbreviated Dialing**

This is a request for a service. It is being met or partially met by some regional companies by offering the following service:

- Shared Speed Calling

**25. Multiline Hunt Groups**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Multiline Hunt Group
- Multiline Hunt Group - Individual Access To Each Port In Hunt Group
- Multiline Hunt Group - Uniform Call Distribution Line Hunting
- Multiline Hunt Group - UCD With Queuing

**26. Unlimited Size Hunt Groups**

This is a request for an attribute of a service. It is related to request number 25. It is being met by some regional companies by offering the following ONA services:

- Multiline Hunt Group
- Multiline Hunt Group - Overflow
- Multiline Hunt Group - Uniform Call Distribution Line Hunting
- Multiline Hunt Group - UCD With Queuing

**27. Individual Access To Each Port In A Hunt Group**

This is a request for service. It is related to request numbers 25 and 26. It is being met by offering the following ONA service:

- Multiline Hunt Group - Individual Access To Each Port In Hunt Group

### **28. CLASS Features Interoffice**

This is a general request for a group of services to operate in a particular manner. It is being met by some regional companies by offering the following ONA services:

- Automatic Callback
- Automatic Recall
- Customer Originated Trace
- Distinctive Ringing
- Selective Call Forwarding
- Selective Call Rejection
- Calling Directory Number Delivery - via ICLID
- Calling Directory Number Delivery - via BCLID

### **29. Suppressed Ringing**

This is a request for a service. This service requires development.

### **30. Trunk Side Access**

This is a request for a service. It is being met by offering the following ONA service:

- Category 1, Type B - Circuit Switched Trunk BSA

It is also being met by some regional companies by offering the following service:

- Trunk Side Access BSA

### **31. Trunk Side Connection With Power Ringing**

This is a request for a service. This service requires development.

### **32. Access to Extended Superframe Data Channel**

This is a request for a particular application of a service. It is being met by some regional companies by offering the following ONA services:

- Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA
- Extended Superframe Conditioning

### **33. Trunk Group Make Busy**

This is a request for a service. It is being met by offering the following ONA service:

- Make Busy Key

### **34. Message Waiting Indication**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Message Waiting Indicator - Activation (Audible)
- Message Waiting Indicator - Activation (Audible) - Expanded
- Message Waiting Indicator - Activation (Visual)
- Message Waiting Indicator - Activation (Visual) - Expanded
- Message Waiting Indicator - Packet Access
- Message Waiting Indicator (MWI) - Ability To Receive Audible Message Waiting
- Message Waiting Indicator (MWI) - Ability To Receive Visual Message Waiting

**35. Answer Supervision (Connect/Disconnect Indications) - Line Side**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Answer Supervision With A Line Side Interface
- Cut Off On Disconnect

**36. Night Transfer**

This is a request for a particular application of a service. It is related to request number 33. It is being met by offering the following ONA service:

- Make Busy Key

**37. Faster Signaling On DID**

This is a request for a particular type of signaling on a service. It is related to request number 23. It is being met by some regional companies by offering the following ONA services:

- Called Directory Number Delivery via DID
- Category 1, Type B - Circuit Switched Trunk BSA
- Faster Signaling On DID

**38. Post Dialing DTMF Signaling From Paystations**

This is a request for a service to operate in a particular manner. Existing coin lines operate in the manner requested. It is being met by some regional companies by offering the following service:

- Coin Phone With Post Dialing Tone Capability

**39. Selected Number Reverse Billing Rate Period Specific**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Reverse Billing On Circuit Switched Access
- Reverse Charge Acceptance - Packet
- Uniform 7 Digit Access Number - Remote Call Forwarding
- Coin Phone With Post Dialing Tone Capability

**40. Single Number Access For Multiple Locations**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Uniform 7 Digit Access Number - Remote Call Forwarding
- Uniform 7 Digit Access Number via Overlay Networking
- Category 1, Type A - Circuit Switched Line BSA
- Category 1, Type B - Circuit Switched Trunk BSA
- Single Number Access for Multiple Locations

**41. Ability To Notify Or Interrupt A Customer**

This request is for a particular application of services. It is related to request number 34. It is being met by some regional companies by offering the following ONA services:

- Message Waiting Indicator - Activation (Audible)
- Message Waiting Indicator - Activation (Audible) - Expanded
- Message Waiting Indicator - Activation (Visual)
- Message Waiting Indicator - Activation (Visual) - Expanded
- Message Waiting Indicator - Packet Access
- Message Waiting Indicator (MWI) - Ability To Receive Audible Message Waiting
- Message Waiting Indicator (MWI) - Ability To Receive Visual Message Waiting
- Distinctive Ringing

**42. Ability To Return Held Call To Customer**

This is a request for a service that requires development.

**43. Interconnection For Specialized Terminal Equipment**

This is a general request that cannot be met by a particular service. It is being met by some regional companies by the various basic serving arrangements (BSAs). If there are particular applications that are not compatible with the BSAs, they must be specifically identified.

**44. Provision For Sharing An ESP Client Among ESPs**

This is a request for a particular application of a service. The requested service requires development.

**45. Custom Service Areas**

This is a request for a particular application of a service. It is related to request number 30. It is being met or partially met by some regional companies by offering an alternative of the following ONA service:

- Category 1, Type A - Circuit Switched Line BSA.
- Category 1, Type B - Circuit Switched Trunk BSA.

It is also being met or partially met by some regional companies by offering the following ONA service:

- Tandem Routing

**46. Statistical Multiplexer at Central Office**

This is a request for a particular equipment configuration to support a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Category 2, Type A - X.25 Packet Switched BSA
- Category 2, Type B - X.75 Packet Switched BSA
- Statistical Multiplexer

**47. X.25 Interface To Packet Switch**

This is a request for a service. It is being met by offering the following ONA service:

- Category 2, Type A - X.25 Packet Switched BSA

**48. X.75 Interface To Packet Switch**

This is a request for a service. It is being met by offering the following ONA service:

- Category 2, Type B - X.75 Packet Switched BSA

**49. Access To Data Services**

This is a request for a particular application of a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Hot Line
- Warm Line
- Preselection for Data Services

**50. B-Channel Switched and Dedicated Access**

This is a request for a service that requires development.

**51. D-Channel Data Delivered on B-Channel**

This is a request for a service that requires development.

**52. Multiple D-Channels on B-Channel**

This is a request for a service that requires development.

**53. ESP Access to D-Channel Signaling**

This is a request for a service that requires development.

**54. Feature Node Service Interface (FN/SI)**

This is a request for a particular interface that requires development.

**55. Service Control Point (SCP) Databases**

This is a request for a service that requires development.

**56. Term Sets and Inband Signaling on Analog Channels**

This is a request for a particular interface. It is being met or partially met by some regional companies by offering the following ONA service:

- Category 3, Type C - Dedicated Voice Grade BSA

**57. Access to Future Intelligent Functions of ISDN**

This is a general request for access to services that may be developed in the future.

**58. Compatibility to Existing Terminals**

This is a general request that cannot be met by a particular service. It is being met by some regional companies by the various basic serving arrangements (BSAs). If there are particular applications that are not compatible with the BSAs, they must be specifically identified.

**59. Mapping ANI to User ID (X.75)**

This is a request for a service that requires development.

**60. Calls Accepted With BOC's DNIC or ESP's DNIC**

This is a request for an attribute of a service. It is being met or partially met by some regional companies by offering the following ONA service:

- Category 2, Type A - X.25 Packet Switched BSA
- Category 2, Type B - X.75 Packet Switched BSA

**61. Equal Access to Exchange Network Switching and Transmission**

This is a general request that cannot be met with a particular service. It is being met by various BSAs.

If there are particular applications that are not being met by the services offered by the BSAs, they must be specifically identified.

**62. Peak Traffic Handling Within Exchange Network**

This is a request for a network management capability that requires development.

**63. ESP Defined Dynamic Routing**

This is a request for a particular application of a service. It is related to requests number 25 and 33. It is being met or partially met by some regional companies by offering the following ONA services:

- Alternate Routing
- Multiline Hunt Group
- Make Busy Key
- Network Reconfiguration

**64. Common Channel Signaling Access**

This is a request for a particular type of signaling interface associated with various services. It is being met or partially met by some regional companies by offering the following ONA service:

- Category 1, Type B - Circuit Switched Trunk BSA
- Category 4 - Dedicated Network Access Link BSA

**65. Dynamic Allocation of Transmission Capacity**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA service:

- Network Reconfiguration

**66. Provision of BOC network status information.**

This is a request for a service that requires development.

**67. Real Time Access To Exchange Network Testing Facilities**

This is a request for a network management capability. It is being met or partially met by some regional companies by offering the following ONA service:

- Access To Operations Support Systems Information

**68. Derived Channels That Comply With UL and NFPA**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Verify Integrity of Subscriber Lines
- Derived Channels (Monitoring)
- Category 3, Type I - Dedicated Alert Transport BSA

**69. One Way Alarm Transmission**

This is a request for a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Category 3, Type I - Dedicated Alert Transport BSA
- Derived Channels (Monitoring)
- Category 1, Type A - Circuit Switched Line BSA
- Category 1, Type B - Circuit Switched Trunk BSA

**70. Derived Channels Compatible with ISDN**

This is a request for two services to interact in a compatible manner. This interaction requires development.

**71. Digital Private Lines (DDS)**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Category 3, Type F - Dedicated Digital (< 64 kbps) BSA
- Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA
- Multiplexing - Digital

**72. Diagnostic Channel on DS0 and Subrate Lines**

This is a request for a service. It is being met by offering the following service:

- Secondary Channel Capability

**73. Error Detection / Error Correction**

This is a request for an attribute of a service. It is related to requests 47 and 48. It is being met or partially met by some regional companies by offering the following services:

- Category 2, Type A - X.25 Packet Switched BSA
- Category 2, Type B - X.75 Packet Switched BSA

**74. Ability to Detect Breaks in Telco Line Within 60 Seconds**

This is a request for a particular application of a service. It is related to request number 68. It is being met or partially met by some regional companies by offering the following ONA services:

- Verify Integrity of Subscriber Lines
- Derived Channels (Monitoring)
- Category 3, Type I - Dedicated Alert Transport BSA



**75. Broadband Link(s) for Video Transmission**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Category 3, Type E - Dedicated Video BSA
- Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA

**76. Ability To Reconfigure Networks**

This is a request for a service. It is being met by offering the following ONA service:

- Network Reconfiguration

**77. Route Diversity**

This is a request for an attribute of a service. It is being met or partially met by some regional companies by offering the following ONA services:

- Category 1 - Circuit Switched BSA
- Category 3 - Dedicated Basic Serving Arrangement
- Category 4 - Dedicated Network Access Link BSA
- Automatic Protection Switching
- Network Reconfiguration
- Route Diversity

**78. Automatic Protection Switching**

This is a request for a service. It is being met by offering the following ONA service:

- Automatic Protection Switching

**79. Private Line Conditioning**

This is a request for a service. It is being met by offering the following ONA service:

- Conditioning

**80. Multiple Monitors per Loop**

This is a request for a particular application of a service. It is being met or partially met by some regional companies by offering the following services:

- Category 3, Type I - Dedicated Alert Transport BSA
- Derived Channels (Monitoring)

**81. Clear Access To Data Portion of Derived Channels**

This is a request for an attribute of a service. It is being met by some regional companies by offering the following services:

- Category 3, Type J - Dedicated Derived Channel BSA
- Category 1, Type A - Circuit Switched Line BSA (Data up to 19.2 kbps Alternative)

**82. Distinctive Ringing**

This is a request for a service. It is being met by some regional companies by offering the following services:

- Distinctive Ringing
- Distinctive Ringing - Terminating Screening

**83. 4-Wire Interconnection/Switching**

This is a request for a particular type of interface. It is being met by or partially met by some regional companies by offering the following ONA services:

- Category 1, Type A - Circuit Switched Line BSA
- Category 1, Type B - Circuit Switched Trunk BSA

**84. Access to Clear Channel Transmission**

This is a request for an attribute of a service. It is being met by some regional companies by offering the following ONA services:

- Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA
- Access To Clear Channel Transmission
- Category 3, Type K - Dedicated Digital (64 kbps) BSA

**85. User Initiated Diagnostics**

This is a general request for a group of services. These services need to be better defined and then developed. However, this is being met or partially met by some regional companies by offering the following service:

- Access To Operations Support Systems Information

**86. Pass Through Diagnostics To User**

This is a general request for service. It is being met or partially met by some regional companies by offering the following service:

- Access To Operations Support Systems Information

**87. Inband Signaling**

This is a request for a particular type of signaling interface. It is related to request number 56. It is being met or partially met by some regional companies by offering the following ONA service:

- Category 3, Type C - Dedicated Voice Grade BSA

**88. Bridging**

This is a request for a service. It is being met by offering the following ONA service:

- Bridging

**89. Monthly Detailed Recording**

This is a request for a service. It is being met or partially met by some regional companies by offering the following services:

- Call Detail Recording Reports
- Call Detail Recording Reports (Packet)

**90. Automatic Disablement Of Call Waiting Tone During Dial-Up Data Call**

This is a request for a service. It is being met or partially met by offering the following ONA service:

- Call Waiting - Cancel

**91. Enable / Disable Network DTMF Signaling**

This is a request for a service that requires development.

**92. Passive In-Band DTMF Tone Transmission**

This is a request for a service that requires development.

**93. Extend DTMF Tone Set**

This is a request for a service that requires development.

**94. Tone to Digital Translation**

This is a request for a service to operate in a particular manner. This requires development.

**95. Multiple Call Forwarding**

This is a request for a service to operate in a particular manner. It is related to requests number 1 and 4. It is being met by some regional companies by offering the following ONA services:

- Call Forwarding - Multiple Simultaneous Calls Interswitch

**96. Virtual Dial Tone**

This is a request for a particular attribute of a service. It is related to requests number 47 and 48. It is being met by some regional companies by offering the following services:

- Category 2, Type A - X.25 Packet Switched BSA
- Category 2, Type B - X.75 Packet Switched BSA

**97. Remote Access to User Programmable Functions (Packet)**

This is a request for a service that requires development.

**98. Remote Speed Call Menu Builder (Packet)**

This is a request for a service that requires development.

**99. Speed Call Menu Builder (Packet)**

This is a request for a service that requires development.

**100. Remote Speed Call Menu Access Translator (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Menu Access Translator - Gateway

**101. Carrier Selection On Reverse Charge**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Carrier Selection on Reverse Charge

It is also being met or partially met by some regional companies by offering an alternative of the following ONA services:

- Category 1, Type A - Circuit Switched Line BSA
- Category 1, Type B - Circuit Switched Trunk BSA (800 dialing plan alternative)

**102. Network Control By Customer From Customer Premises**

This is a request for service that requires development.

**103. Real Time Traffic Usage Data**

This is a general request for a service. It is being met or partially met by some regional companies by offering the following service:

- Access To Operations Support Systems Information

**104. Central Office Announcements**

This is a request for an attribute of a service. It may be related to request number 25. It is being met or partially met by some regional companies by offering the following ONA services:

- Multiline Hunt Group
- Multiline Hunt Group - C. O. Announcements
- Multiline Hunt Group - Uniform Call Distribution Line Hunting
- Multiline Hunt Group - UCD with Queuing

**105. Name & Address of the Calling Party**

This is a general request for a service. It is being met or partially met by some regional companies by offering the following service:

- Name of Calling Party

**106. Suppression of Audible Click on Call Forwarding (Interoffice)**

This is a request for an attribute of a service that requires development.

**107. Billing Number Delivery**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Calling Billing Number Delivery - FG B Protocol
- Calling Billing Number Delivery - FG D Protocol

**108. Privacy (Classes Of Non-Published Service)**

This is a request for a service that requires development.

**109. Delivery Of Traveling Class Mark**

This is a request for an attribute of a service. It is related to request number 107. It is being met or partially met by some regional companies by offering the following ONA services:

- Calling Billing Number Delivery - FG D Protocol
- Flexible ANI Information Digits

**110. User ID Associated With Calling Number And/Or Service ID Code**

This is a request for a service that requires development.

**111. Warm Line**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Warm Line

**112. Closed User Group (Packet)**

This is a request for a service. It is being met by offering the following ONA service:

- Closed User Groups - Packet

**113. Fast Select (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA services:

- Fast Select Acceptance - Packet
- Fast Select Request - Packet

**114. Hunt Group (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Hunt Groups - Packet

**115. Call Redirection (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Call Redirection - Packet

**116. Direct Call (Packet)**

This is a request for a service. It is being met by some regional companies by offering the following ONA service:

- Direct Call - Packet

**117. Programmed Default Call Forwarding**

This is a request for a service that requires development.

**118. Restriction of Outgoing Calls (Packet)**

This is a request for a service that requires development.

## Appendix B: Individual Regional Company Responses to the 118 ESP Requests

ESP REQUEST FOR NETWORK CAPABILITY	AM	BA	BS	NX	PB	SW	US
1. Call Forwarding Busy Line/Don't Answer	CNS	CNS	CNS	CNS	CNS	CNS	CNS
2. Activation Of CF Variable Without Call Completion	CNS	CNS	CNS	CNS	CNS		CNS
3. Call Forward Don't Answer Interoffice	CNS	CNS	CNS	CNS	CNS	CNS	CNS
4. Multiple Calls Forwarded To DID Interoffice	CNS	CNS	CNS	CNS	CNS	CNS	CNS
5. Call Forwarding With Status Information To Answering Bureau	BSE	BSE	BSE	BSE	BSE		BSE
6. Activation of Call Forwarding Variable With Call Completion	CNS	CNS	CNS	CNS	CNS	CNS	CNS
7. Call Forwarding With Call Screening		CNS	CNS		CNS/ BSE	CNS	CNS
8. Call Forwarding With Call Waiting			CNS	CNS	CNS		CNS
9. Call Forwarding With Called and Calling Number	BSE	BSE	BSE	BSE	BSE		BSE
10. Call Forward Don't Answer With Variable Ring Counts	CNS	CNS	CNS	CNS	CNS	CNS	CNS
11. Customer Control of CFBL/CFDA	CNS		CNS	CNS	CNS		CNS
12. Monitor & Barge In							
13. SMDI	BSE	BSE	BSE	BSE	BSE		BSE
14. SMDI With Automatic Ringback							CNS
15. 3-Way Call Transfer	BSE	BSE	BSE/ CNS	BSE	BSE		BSE
16. Speed Calling	CNS	CNS	CNS	CNS	CNS	CNS	CNS
17. Remote Activation of Custom Calling Services	CNS	CNS	CNS	CNS	CNS	CNS	CNS
18. ESP Notification Of ESP's Client Or BOC Control Action							
19. Call Distribution Functions Including Queue	BSE	BSE	BSE	BSE	BSE	BSE	BSE
20. Derived Local Channels	CNS/ BSE	CNS/ BSA	CNS	BSA	CNS/ BSE	CNS/ BSA	BSA
21. Screening	CNS	CNS	CNS		CNS/ BSE	CNS	CNS
22. Calling Directory Number Delivery	BSE	BSE	BSE/ CNS	BSE/ CNS	BSE	CNS	BSE
23. Delivery of Dialed Number	BSE	BSE	BSE/ CNS	BSE/ CNS	BSE	BSA	BSE
24. Uniform Abbreviated Dialing		CNS			CNS		CNS
25. Multiline Hunt Groups	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
26. Unlimited Size Hunt Groups	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
27. Individual Access To Each Port In A Hunt Group	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE

ESP REQUEST FOR NETWORK CAPABILITY	AM	BA	BS	NX	PB	SW	US
28. CLASS Features Interoffice	CNS	CNS	CNS/ BSE	CNS	CNS/ BSE	CNS	CNS/ BSE
29. Suppressed Ringing							
30. Trunk Side Access	BSA	BSA	BSA	BSA	BSA	BSA	BSA
31. Trunk Side Connection With Power Ringing							
32. Access to Extended Superframe Data Channel	BSE	BSA	BSA	BSA	BSA	BSE	BSA
33. Trunk Group Make Busy	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
34. Message Waiting Indication	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE/ CNS
35. Answer Supervision (Connect/Disconnect Indications) - Line	BSE	BSE	BSE		BSE		BSE
36. Night Transfer	BSE	BSE	BSE/ CNS	BSE/ CNS	BSE	BSE	BSE
37. Faster Signaling On DID		BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE	BSA	BSA
38. Post Dialing DTMF Signaling From Paystations	YES	YES	BSA	CNS	YES	CNS	BSA
39. Selected Number Reverse Billing Rate Period Specific	BSE	BSE			BSE	BSE	BSE
40. Single Number Access For Multiple Locations		BSE	CNS				BSA
41. Ability To Notify Or Interrupt A Customer	BSE/ CNS	BSE/ CNS	BSE	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE/ CNS
42. Ability To Return Held Call To Customer							
43. Interconnection For Specialized Terminal Equipment	BSA	BSA	BSA	BSA	BSA	BSA	BSA
44. Provision For Sharing An ESP Client Among ESPs							
45. Custom Service Areas	BSA	BSE	BSE	BSA	BSA		BSE
46. Statistical Multiplexer at Central Office	BSA	BSA/ BSE			BSA	BSA	BSA
47. X.25 Interface To Packet Switch	BSA	BSA	BSA	BSA	BSA	BSA	BSA
48. X.75 Interface To Packet Switch	BSA	BSA	BSA	BSA	BSA	BSA	BSA
49. Access To Data Services	CNS	CNS/ BSE	CNS	BSE/ CNS	CNS/ BSE	CNS	CNS
50. B-Channel Switched and Dedicated Access							
51. D-Channel Data Delivered on B-Channel							
52. Multiple D-Channels on B-Channel							
53. ESP Access to D-Channel Signaling							
54. Feature Node Service Interface (FN/SI)							
55. Service Control Point (SCP) Databases							

ESP REQUEST FOR NETWORK CAPABILITY	AM	BA	BS	NX	PB	SW	US
55. Service Control Point (SCP) Databases							
56. Term Sets and Inband Signaling on Analog Channels	BSA	BSA	BSA	BSA	BSA	BSA	BSA
57. Access to Future Intelligent Functions of ISDN							
58. Compatibility to Existing Terminals	BSA	BSA	BSA	BSA	BSA	BSA	BSA
59. Mapping ANI to User ID (X.75)							
60. Calls Accepted With BOC's DNIC or ESP's DNIC	BSA	BSA			BSA	BSA	BSA
61. Equal Access to Exchange Ntwk Switching and Transmission	BSA	BSA	BSA	BSA	BSA	BSA	BSA
62. Peak Traffic Handling Within Exchange Network							
63. ESP Defined Dynamic Routing	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
64. Common Channel Signaling Access	BSA			BSA	BSA		BSA
65. Dynamic Allocation of Transmission Capacity			BSE/ CNS				
66. Provision of BOC Network Status Information							
67. Real Time Access To Exchange Network Testing Facilities			BSE/ CNS				
68. Derived Channels That Comply With UL and NFPA	CNS/ BSE	CNS	BSA	CNS	BSE/ CNS		CNS
69. One Way Alarm Transmission	CNS	BSA/ CNS	BSA	BSA	BSA	BSA	CNS
70. Derived Channels Compatible with ISDN							
71. Digital Private Lines (DDS)	BSA	BSA	BSA	BSA	BSA	BSA	BSA
72. Diagnostic Channel on DS0 and Subrate Lines	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
73. Error Detection / Error Correction	BSA	BSA	BSA	BSA	BSA	BSA	BSA
74. Ability to Detect Breaks in Telco Line Within 60 Seconds	CNS/ BSE	CNS/ BSA		BSA	CNS/ BSE		CNS
75. Broadband Link(s) for Video Transmission	BSA	BSA	BSA	BSA	BSA	BSA	BSA
76. Ability To Reconfigure Networks	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
77. Route Diversity	BSA/ BSE	BSA	BSE/ CNS	BSE	BSA	BSE	BSE
78. Automatic Protection Switching	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
79. Private Line Conditioning	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
80. Multiple Monitors per Loop	BSE/ CNS			CNS	CNS		CNS
81. Clear Access To Data Portion of Derived Channels	BSA	BSA	BSA	BSA	BSA		BSA
82. Distinctive Ringing	CNS	CNS	CNS		CNS	CNS	CNS



ESP REQUEST FOR NETWORK CAPABILITY	AM	BA	BS	NX	PB	SW	US
83. 4-Wire Interconnection/Switching	BSA	BSA		BSA	BSA	BSA	BSA
84. Access to Clear Channel Transmission	BSE/ BSA	BSE	BSA	BSE	BSE	BSE	BSE
85. User Initiated Diagnostics			BSE/ CNS				
86. Pass Through Diagnostics To User			BSE/ CNS				
87. Inband Signaling	BSA	BSA	BSA	BSA	BSA	BSA	BSA
88. Bridging	BSE	BSE	BSE/ CNS	BSE	BSE	BSE	BSE
89. Monthly Detailed Recording		BSE	BSE	AN/ BSE/ CNS		AN/ BSE	BSE
90. Auto Disable Of Call Wtng Tone During Dial-Up Data Call	CNS	CNS	CNS	CNS	CNS	CNS	CNS
91. Enable / Disable Network DTMF Signaling							
92. Passive In-Band DTMF Tone Transmission							
93. Extend DTMF Tone Set							
94. Tone to Digital Translation							
95. Multiple Call Forwarding	CNS	CNS	CNS	CNS	CNS	CNS	CNS
96. Virtual Dial Tone	BSA	BSA	BSA	BSA	BSA	BSA	BSA
97. Remote Access to User Programmable Functions (Packet)							
98. Remote Speed Call Menu Builder (Packet)							
99. Speed Call Menu Builder (Packet)							
100. Remote Speed Call Menu Access Translator (Packet)							BSE
101. Carrier Selection on Reverse Charge	BSA	BSE	BSA	BSE	BSE		BSA
102. Network Control By Customer From Customer Premises							
103. Real Time Traffic Usage Data			BSE/ CNS				
104. Central Office Announcements	BSE	BSE	BSE	BSE	BSE	BSE	BSE
105. Name & Address of the Calling Party			CNS				
106. Suppression of Audible Click on Call Fwding Interoffice							
107. Billing Number Delivery	BSE	BSE	BSE	BSE	BSE	BSE	BSE
108. Privacy (Classes Of Non-Published Service)							
109. Delivery Of Traveling Class Mark	BSE	BSE	BSE	BSE	BSE	BSE	BSE
110. User Nmbr Assoc. With Calling Nmbr and/or Svc ID Code							

ESP REQUEST FOR NETWORK CAPABILITY	AM	BA	BS	NX	PB	SW	US
111. Warm Line	CNS	CNS	CNS	BSE/ CNS	CNS	CNS	CNS
112. Closed User Group (Packet)	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE	BSE	BSE
113. Fast Select (Packet)	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE/ CNS	BSE	BSE
114. Hunt Group (Packet)	BSE	BSE	BSE/ CNS	BSE/ CNS	BSE	BSE	BSE
115. Call Redirection (Packet)	BSE	BSE	BSE/ CNS	BSE/ CNS	BSE	BSE	BSE
116. Direct Call (Packet)	CNS	CNS	CNS/ BSE	BSE/ CNS	CNS	CNS	CNS
117. Programmed Default Call Forwarding							
118. Restriction of Outgoing Calls (Packet)							

AN = ancillary service

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